smiths detection

HI-SCAN™ 100100T
HEIMANN X-RAY TECHNOLOGY
New: 160 kV X-ray source – typical steel penetration 32 mm

Feature Highlights

- Ideal method of inspecting oversized baggage and freight
- Ease of handling heavy goods via low conveyor belt
- Outstanding image quality with new HiTraX electronics
- Wire detectability AWG 38
- New HI MAT Plus technology for better material distinction

HI-SCAN 100100T is a state-of -the art X-ray inspection system for the scanning of objects up to a size of 100 X 100 cm.

The HI-SCAN 100100T is specially designed to meet the needs and applications of airports, customs facilities, transportation operations, carriers, parcel services or wherever high security and total screening of large objects are required.

The low installation height of the HI-SCAN 100100T conveyor system facilitates the connection of supplementary feed- and/or discharge conveyor systems for heavy freight.

With an installation base of more than 37,000 X-ray security units distributed throughout 150 countries across all continents and a worldwide customer service network the Smiths Heimann is the unequalled world leader in supplying X-ray security systems.

Operator training courses offered by Smiths Heimann have an excellent reputation all over the world, and they are carried out individually for each customer.

As the world's leading supplier of X-ray inspection systems Smiths Heimann provides an efficient, global service network working fast and reliably.

General Specifications

Tunnel dimensions	1010 (W) x 1010 (H) [mm] • 39.7" (W) x 39.7" (H)
Max. object size	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H))
Conveyor height [1]	approx. 350 mm (13.7")
Conveyor speed (adjustable with frequency converter)	typical 0.2 [m/s]
max. conveyor load even distributed over the whole conveyor [2]	200 kg (440 lbs)
Resolution (wire detectability)	standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.1 mm)
Penetration (steel) [3]	standard: 30 mm • typical: 32 mm
ASTM 792-08 (Test 1, Test 3, Test 4)	Test 1: AWG 30 [4] / Test 3: 1.6 mm horz./2.0 mm vert. [4] / Test 4: 26 mm [4]
External dose rate	≤ 2 µSv (0,2 mrem)
Film safety	guaranteed up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • cooling	160 kV cp • hermetically sealed oil bath
Beam direction	diagonal (from top to bottom)

Image Generating System

X-ray converter	L-shaped detector line
Grey levels stored	4096
Image presentation	B/W, color
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O^2, OS, HIGH, HI-SPOT, SEN, XPlore, Opti-Zoom, HDA, electronic zoom: stepless enlargement up to 64-times
Monitor	Flat Panel LCD Monitor

Additional Features

Functions	fading-in of date/time, luggage counter, user id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom, IMS (Image Store System - stores up to 100,000 images)
Options	X-ACT, HI-TIP, Xport

Installation Data

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X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
Sound pressure level	< 70 dB(A)
Operating- / storage temperature	0° - 40°C / -20°C - +60°C
Humidity	5% - 95% (non-condensing)
Power supply [3]	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 1.0 kVA
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight [4]	3578 (L) x 1234 (W) x 1900 (H) [mm] • approx. 930 kg 141.0" (L) x 48.6" (W) x 74.8" (H) • approx. 2050 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors Standard color: RAL 7016 (dark gray)

[1] approx. values (adjustable)
[2] measured at ambient temperature of 20°C and nominal voltage
[3] proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s

[4] max. measurable values with ASTM 792-08 test piece
[5] different values optional
[6] without control desk, keyboard, monitor(s) etc.
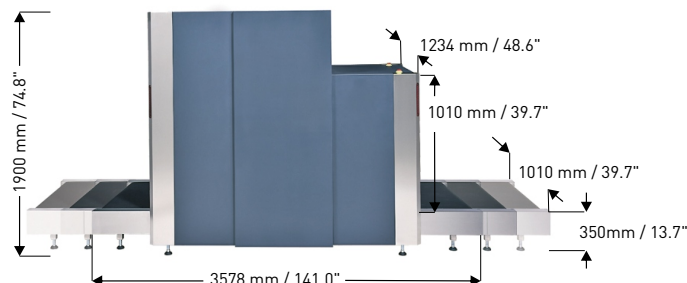
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